

**INFORMATION DISCLOSURE
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SERIAL NO.

620-379

10/542,281

APPLICANT

FINN et al.

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FILING DATE

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July 15, 2005

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
/SB/	5,834,249	11/1998	Furukawa et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
/SB/	WO 99/02510 /	01/1999	WIPO				
	WO 99/24399 /	05/1999	WIPO				
	WO 00/12477 /	03/2000	WIPO				
	WO 00/12478 /	03/2000	WIPO				
	WO 00/37436 /	06/2000	WIPO				
	WO 00/46221 /	08/ 2000	WIPO				
	WO 00/56704 /	09/2000	WIPO				
	WO 00/69819 /	11/2000	WIPO				
	WO 00/69839 /	11/2000	WIPO				
	WO 01/10834 /	02/2001	WIPO				
	WO 01/38322 /	05/2001	WIPO				
	WO 01/44189 /	06/2001	WIPO				
	WO 01/62751 /	08/ 2001	WIPO				
	WO 01/85680 /	11/2001	WIPO				
	WO 01/87870 /	11/2001	WIPO				
	WO 02/22577 /	03/2002	WIPO				
	WO 02/26696 /	04/2002	WIPO				
	WO 02/26703 /	04/2002	WIPO				
	WO 02/28829 /	04/2002	WIPO				
	WO 02/30879 /	04/2002	WIPO				
	EP 0 574 758 /	12/1993	Europe				
	EP 0 827 742 /	03/1998	Europe				
	EP 0 684 240 /	11/1995	Europe				
	JP 10-114681	05/1998	Japan				
	JP 57-077646 /	05/1982	Japan				
	JP 49-000243 /	01/1974	Japan				
	JP 04-217950 /	08/1992	Japan				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

/SB/	Andrews et al., 2000, "Anti-malarial effect of histone deacetylation inhibitors and mammalian tumour cytodifferentiating agents," <u>Int. J. Parasitol.</u> , Vol. 30, No. 6, pp. 761-768.
/SB/	Barta et al., 2000, "Synthesis and activity of selective MMP inhibitors with an aryl backbone," <u>Bioorg. Med. Chem. Lett.</u> , Vol. 10, No. 24, pp. 2815-2817.

Examiner

/Samuel Barts/

Date Considered

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OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)

/SB/	Bernhard, D. et al., 1999, "Apoptosis induced by the histone deacetylase inhibitor sodium butyrate in human leukemic lymphoblasts," <u>FASEB J.</u> , Vol. 13, No. 14, pp. 1991-2001.
	Bernstein et al., 2000, "Genomewide studies of histone deacetylase function in yeast," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 97, No. 25, pp. 13708-13713.
	Brehm, A., et al., 1998, "Retinoblastoma protein recruits histone deacetylase to repress transcription," <u>Nature</u> , 1998, Vol. 391, pp. 597-601.
	Chang et al., 2000, "Activation of the BRLF1 promoter and lytic cycle of Epstein-Barr virus by histone acetylation," <u>Nucleic Acids Res.</u> , Vol. 28, No. 20, pp. 3918-3925.
	Dangond et al., 1998, Differential Display Cloning of a Novel Human Histone Deacetylase (HDAC3) cDNA from PHA-Activated Immune Cells," <u>Biochem. Biophys. Res. Commun.</u> , Vol. 242, No. 3, pp. 648-652.
	David, G., et al., 1998, "Histone deacetylase associated with mSin3A mediates repression by the acute promyelocytic leukemia-associated PLZF protein," <u>Oncogene</u> , Vol. 16(19), pp. 2549-2556.
	Davie, J.R., 1998, "Covalent modifications of histones: expression from chromatic templates," <u>Curr. Opin. Genet. Dev.</u> , Vol. 8, pp. 173-178.
	Desai, D., et al., 1999, "Chemopreventive efficacy of suberanilohydroxamic acid (SAHA), a cytodifferentiating agent, against tobacco-specific nitrosamine 4-(methylnitros-amino)-1-(3-pyridyl)-1-butanone (NNK)-induced lung tumorigenesis in female A/J mice," <u>Proceedings of the American Association for Cancer Research</u> , Prevention/Basic Science and Clinical Studies 4, Vol. 40, p. 362, Abstract No. 2396.
	Desmarests, C., et al., 2001, Nickel-catalysed sequential amination of aryl- and heteroaryl di- and trichlorides," <u>Tetrahedron</u> , Vol. 57, pp. 7657-7664.
	Emiliani, S., et al., 1998, "Characterization of a human RPD3 ortholog, HDAC3," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 95, p. 2795-2800.
	Finnin et al., 1999, "Structures of a histone deacetylase homologue bound to the TSA and SAHA inhibitors," <u>Nature</u> , Vol. 401, pp. 188-193.
	Grozinger et al., 1999, "Three proteins define a class of human histone deacetylases related to yeast Hda1p," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 96, pp. 4868-4873.
	Hartwig, J.F., et al., 1999, "Room-Temperature Palladium-Catalyzed Amination of Aryl Bromides and Chlorides and Extended Scope of Aromatic C-N Bond Formation with a Commercial Ligand," <u>J. Org. Chem.</u> , Vol. 64, pp. 5575-5580.
✓	Hoshikawa, Y., et al., 1994, "Trichostatin A Induces Morphological Changes and Gelsolin Expression by Inhibiting Histone Deacetylase in Human Carcinoma Cell Lines," <u>Exp. Cell. Res.</u> , Vol. 214(1), pp. 189-197.

*Examiner

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, etc.)

/SB/	Hou et al., 2001, "Binding affinities for a series of selective inhibitors of gelatinase-A using molecular dynamics with a linear interaction energy approach," <u>J. Phys. Chem. B</u> , Vol. 105, No. 22, pp. 5304-5315.
	Howe, L., et al., 1999, "Histone Acetyltransferase Complexes and Their Link to Transcription," <u>Crit. Rev. Eukaryot. Gene Expr.</u> , Vol. 9(3-4), pp. 231-243.
	Iavarone et al., 1999, "E2F and Histone Deacetylase Mediate Transforming Growth Factor β Repression of <i>cdc25A</i> during Keratinocyte Cell Cycle Arrest," <u>Mol. Cell Biol.</u> , Vol. 19, No. 1, pp. 916-922.
	Jung, M., et al., 1999, " <u>Journal of Medicinal Chemistry</u> (ACS, Washington, USA), Vol. 42, No. 22, pp. 4669-4679.
	Kao et al., 2000, "Isolation of a novel histone deacetylase reveals that class I and class II deacetylases promote SMRT-mediated repression," <u>Genes & Dev.</u> , Vol. 14, p. 55-66.
	Kijima et al., 1993, "Trapoxin, an Antitumor Cyclic Tetrapeptide, Is an Irreversible Inhibitor of Mammalian Histone Deacetylase*," <u>J. Biol. Chem.</u> , Vol. 268, pp. 22429-22435.
	Kim et al., 1999, "Oxamflatin is a novel antitumor compound that inhibits mammalian histone deacetylase," <u>Oncogene</u> , Vol. 18(15), pp. 2461-2470.
	Kim, M.S., et al., 2001 "Histone deacetylases induce angiogenesis by negative regulation of tumour suppressor genes," <u>Nature Medicine</u> , Vol 7, No. 4, pp. 437-443.
	Kimura et al., 1994, "Dual Modes of Action of Platelet-Derived Growth Factor and Its Inhibition by Trichostatin-A for DNA Synthesis in Primary Cultured Smooth Muscle Cells of Rat Aorta," <u>Biol. Pharm. Bull.</u> , Vol. 17, No. 3, pp. 399-402.
	Kitamura, K., et al., 2000, "Histone deacetylase inhibitor but not arsenic trioxide differentiates acute promyelocytic leukaemia cells with t(11;17) in combination with all-trans retinoic acid," <u>Br. J. Haematol.</u> , Vol. 108(4), pp. 696-702.
	Kompis, I, Wick, A., 1977, "Synthesis of 4-halo-substituted analogs of trimethoprim," <u>Helv. Chim. Acta.</u> , Vol. 60, No. 8, pp. 3025-3034.
	Kouzarides, T., 1999, "Histone acetylases and deacetylases in cell proliferation," <u>Curr. Opin. Genet. Dev.</u> , Vol. 9, No. 1, pp. 40-48.
	Kuusisto et al., 2001, "Ubiquitin-Binding Protein p62 Expression is Induced during Apoptosis and Proteasomal Inhibition in Neuronal Cells," <u>Biochem. Biophys. Res. Commun.</u> , Vol. 280, No. 1, pp. 223-228.
	Kwon et al., 1998, "Depudecin induces morphological reversion of transformed fibroblasts via the inhibition of histone deacetylase," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 95, pp. 3356-3361.
✓	Laherty, C.D., et al., 1997, "Histone Deacetylases Associated with the mSin3 Corepressor Mediate Mad Transcriptional Repression," <u>Cell</u> , Vol. 89(3), pp. 349-356.

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/SB/	Lea and Tulsyan, 1995, "Discordant Effects of Butyrate Analogues on Erythroleukemia Cell Proliferation, Differentiation and Histone Deacetylase," <u>Anticancer Res.</u> , Vol. 15, pp. 879-883.
	Lea et al., 1999, "Increased acetylation of histones induced by diallyl disulfide and structurally related molecules," <u>Int. J. Oncol.</u> , Vol. 2, pp. 347-352.
	Lin, R.J., et al., 1998, "Role of the histone deacetylase complex in acute promyelocytic leukaemia," <u>Nature</u> , Vol. 391(6669), pp. 811-814.
	McCaffrey et al., 1997, "Induction of γ -Globin by Histone Deacetylase Inhibitors," <u>Blood</u> , Vol. 90, No. 5, pp. 2075-2083.
	Mielnicki, L.M., et al., 1999, "Epigenetic Regulation of Gelsolin Expression in Human Breast Cancer Cells," <u>Exp. Cell. Res.</u> , Vol. 249(1), pp. 161-176.
	Nakajima et al., 1998, "FR901228, a Potent Antitumor Antibiotic, Is a Novel Histone Deacetylase Inhibitor," <u>Exp. Cell Res.</u> , Vol. 241, pp. 126-133.
	Ng, H.H. and Bird, A., 2000, "Histone deacetylases: silencers for hire," <u>Trends Biochem. Sci.</u> , Vol. 25(3), pp. 121-126.
	Niki et al., 1999, "A Histone Deacetylase Inhibitor, Trichostatin A, Suppresses Myofibroblastic Differentiation of Rat Hepatic Stellate Cells in Primary Culture," <u>Hepatology</u> , Vol. 29, No. 3, pp. 858-867.
	Onishi et al., 1996, "Antibacterial Agents That Inhibit Lipid A Biosynthesis," <u>Science</u> , Vol. 274, pp. 980-982.
	Parrish, C.A., et al., 2001, "Use of Polymer-Supported Dialkylphosphinobiphenyl Ligands for Palladium-Catalyzed Amination and Suzuki Reactions," <u>J. Org. Chem.</u> , Vol. 66, pp. 3820-3827.
	Pazin, M.J., et al., 1997, "What's up and down with histone deacetylation and transcription?," <u>Cell</u> , Vol. 89, No. 3, pp. 325-328.
	Richon et al., 1996, "Second generation hybrid polar compounds are potent inducers of transformed cell differentiation," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 93, pp. 5705-5708.
	Richon et al., 1998, "A class of hybrid polar inducers of transformed cell differentiation inhibits histone deacetylases," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 95, pp. 3003-3007.
	Saito et al., 1999, "A synthetic inhibitor of histone deacetylase, MS-27-275, with marked <i>in vivo</i> antitumor activity against human tumors," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 96, pp. 4592-4597.
✓	Saunders, N. et al, 1999 "Histone deacetylase inhibitors as potential anti-skin cancer agents," <u>Cancer Res.</u> , Vol. 59, No. 2 pp. 399-404.

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/SB/	Sonoda, H. et al., 1996, "Oxamflatin: a novel compound which reverses malignant phenotype to normal one via induction of JunD," <u>Oncogene</u> , Vol. 13, pp. 143-149.
	Spencer, V.A. and Davie, J.R., 1999, "Role of covalent modifications of histones in regulating gene expression," <u>Gene</u> , Vol. 240(1), pp. 1-12.
	Suzuki et al., 1999, "Synthesis and histone deacetylase inhibitory activity of new benzamide derivatives," <u>J. Med. Chem.</u> , Vol. 42, pp. 3001-3003.
	Takahashi, I., et al, 1996, "Selective inhibition of IL-2 gene expression by trichostatin A, a potent inhibitor of mammalian histone deacetylase," <u>J. Antibiot. (Tokyo)</u> , Vol. 49, No. 5, pp. 453-457.
	Taunton, J., et al., 1996, "A mammalian histone deacetylase related to the yeast transcriptional regulator Rpd3p," <u>Science</u> , Vol. 272, pp. 408-411.
	Tsuji et al., 1976, "A New Antifungal Antibiotic, Trichostatin*," <u>J. Antibiot. (Tokyo)</u> , Vol. 29, No. 1, pp. 1-6.
	Ueda, H., et al., 1994, "FR901228, a novel antitumor bicyclic depsipeptide produced by <i>Chromobacterium violaceum</i> No. 968," <u>J. Antibiot. (Tokyo)</u> , Vol. 47(3), pp. 315-323.
	Van den Wyngaert et al., "Cloning and characterization of human histone deacetylase 8," 2000, <u>FEBS</u> , Vol. 478, pp. 77-83.
	Vigushin et al., 2001, "Trichostatin A Is a Histone Deacetylase Inhibitor with Potent Antitumor Activity against Breast Cancer <i>in vivo</i> ¹ ," <u>Clin. Cancer Res.</u> , Vol. 7, No. 4, pp. 971-976.
	Warrell et al., 1998, "Therapeutic Targeting of Transcription in Acute Promyelocytic Leukemia by Use of an Inhibitor of Histone Deacetylase," <u>J. Natl. Cancer Inst.</u> , Vol. 90, pp. 1621-1625.
	Wolfe, J.P., et al., 2000, "Scope and Limitations of the Pd/BINAP-Catalyzed Amination of Aryl Bromides," <u>J. Org. Chem.</u> , Vol. 65, pp. 1144-1157.
	Wolfe, J.P., et al., 2000, "Simple, Efficient Catalyst System for the Palladium-Catalyzed Amination of Aryl Chlorides, Bromides, and Triflates," <u>J. Org. Chem.</u> , Vol. 65, pp. 1158-1174.
	Wong, J., et al., 1998, "Distinct requirements for chromatin assembly in transcriptional repression by thyroid hormone receptor and histone deacetylase," <u>EMBO J.</u> , Vol. 17(2), pp. 520-534.
✓	Yang, W.M., et al., 1996, "Transcriptional repression of YY1 is mediated by interaction with a mammalian homolog of the yeast global regulator RPD3," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 93, pp. 12845-12850.

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